

FIG. 1

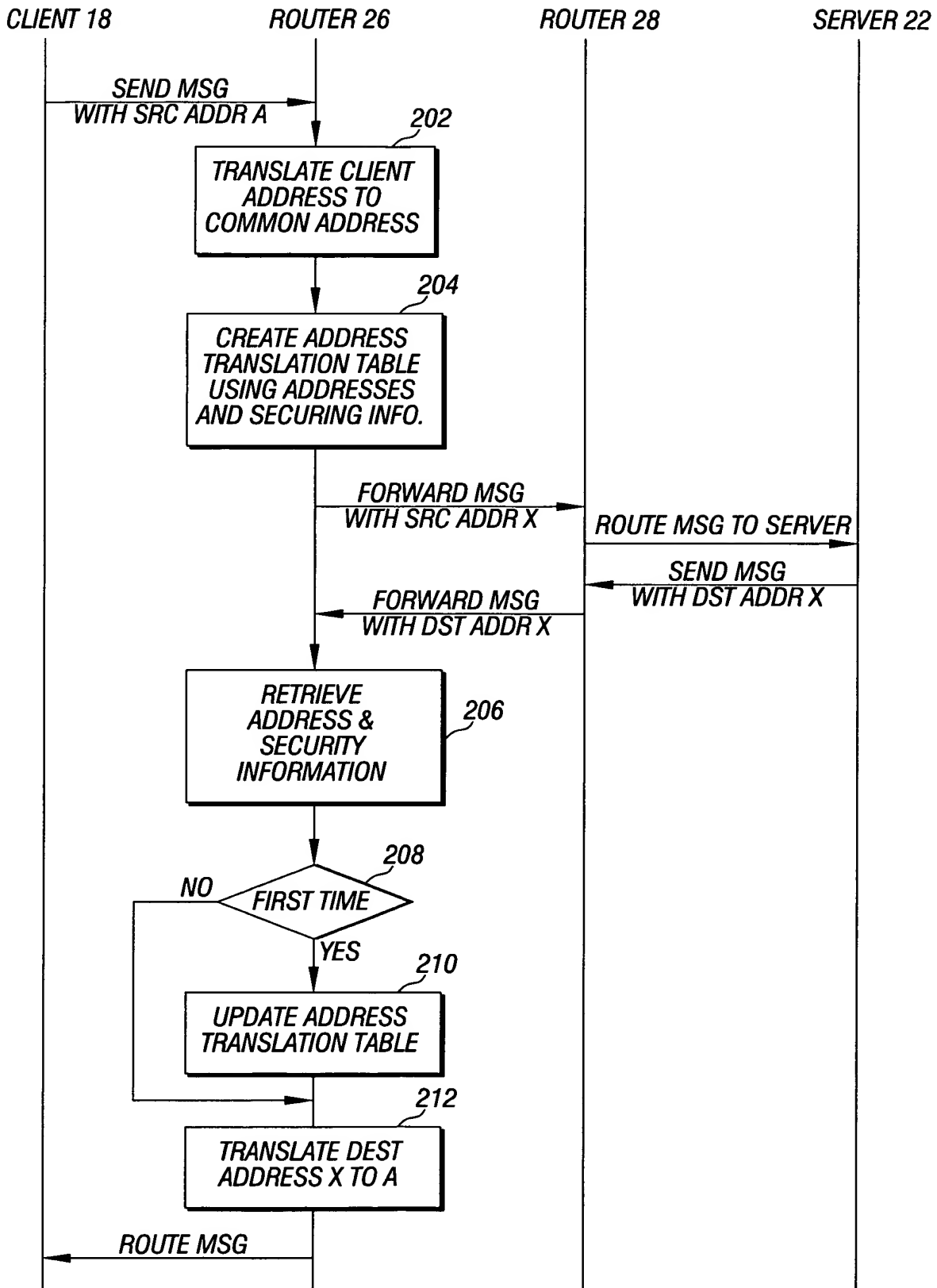


FIG. 2

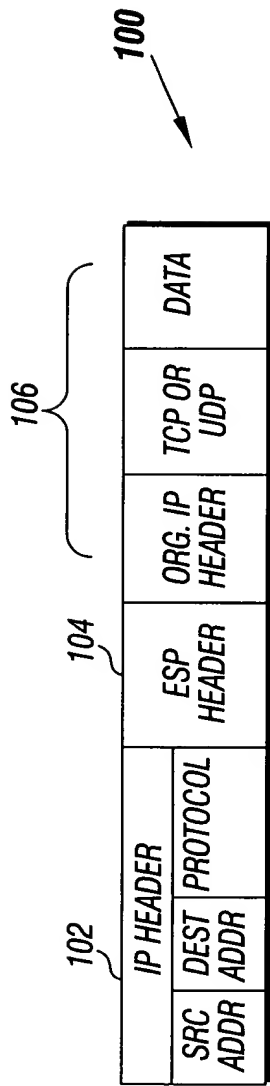


FIG. 3A

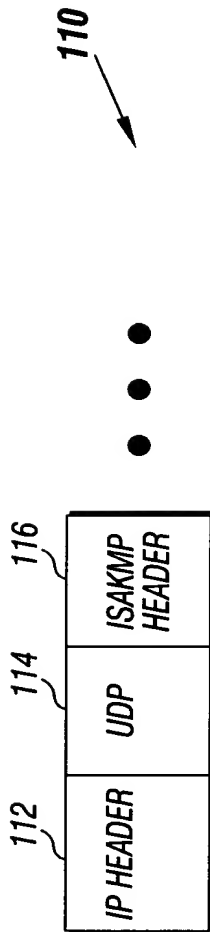


FIG. 3B

104

| | |
|--|--------------------|
| <i>SECURITY PARAMETERS INDEX (SPI)</i> | |
| <i>SEQUENCE NUMBER</i> | |
| <i>PAYLOAD DATA * (VARIABLE)</i> | |
| <i>PADDING (0-255 BYTES)</i> | |
| <i>PAD LENGTH</i> | <i>NEXT HEADER</i> |
| <i>AUTHENTICATION DATA (VARIABLE)</i> | |

FIG. 4

116

| | | | | |
|-------------------------|--------------|--------------|----------------------|--------------|
| <i>INITIATOR COOKIE</i> | | | | |
| <i>RESPONDER COOKIE</i> | | | | |
| <i>NEXT PAYLOAD</i> | <i>MJVER</i> | <i>MNVER</i> | <i>EXCHANGE TYPE</i> | <i>FLAGS</i> |
| <i>MESSAGE ID</i> | | | | |
| <i>LENGTH</i> | | | | |

FIG. 5

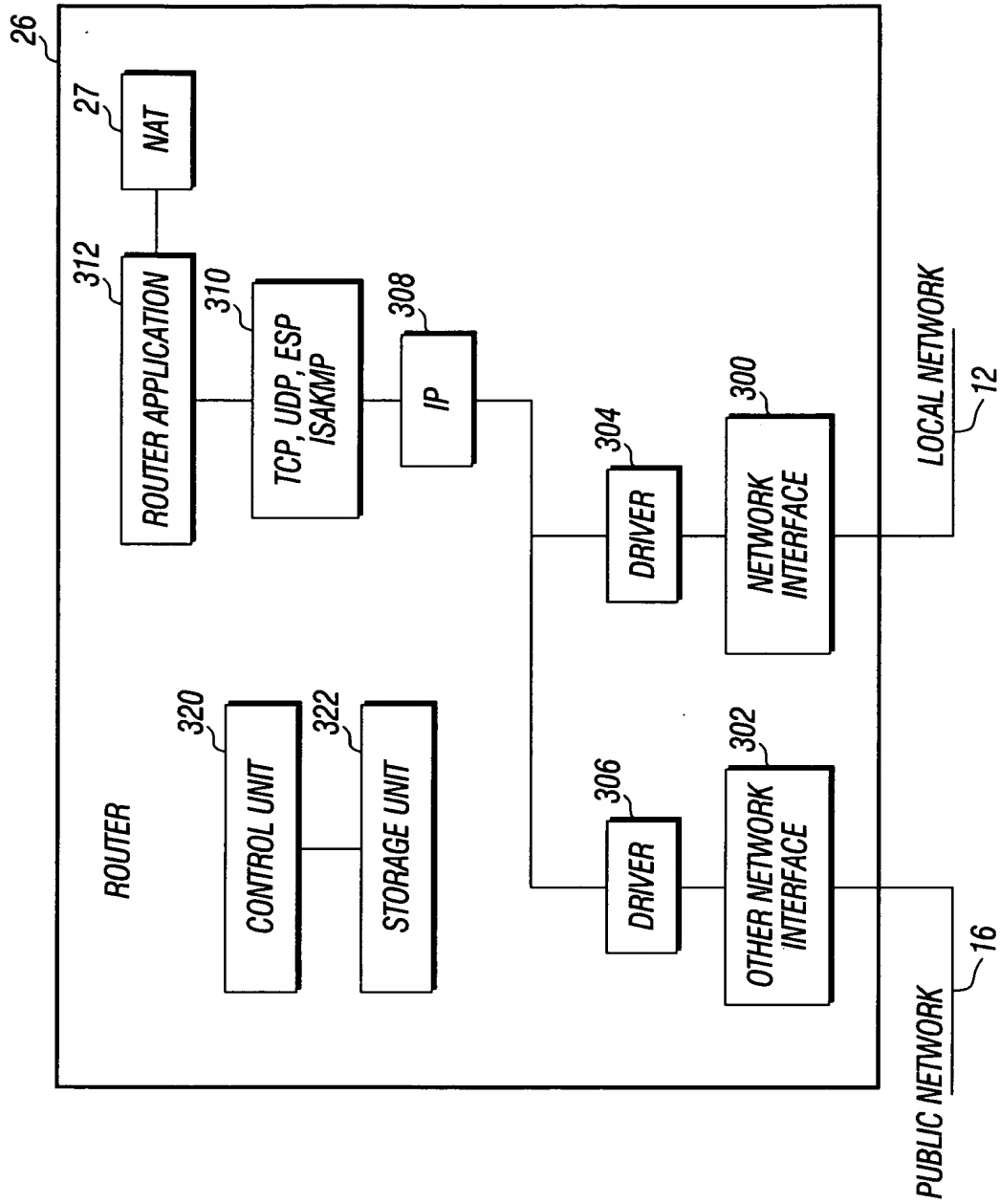


FIG. 6

| <i>SRC ADDR</i> | <i>DEST ADDR</i> | <i>SRC PORT</i> | <i>DEST PORT</i> | <i>INITIATOR COOKIE</i> | <i>RESPONDER COOKIE</i> |
|---------------------|----------------------|---------------------|----------------------|-----------------------------|-----------------------------|
|---------------------|----------------------|---------------------|----------------------|-----------------------------|-----------------------------|

*CLIENT
TO
ROUTER*

| | | | | | |
|----------|----------|------------|------------|-----------|----------|
| <i>A</i> | <i>Y</i> | <i>500</i> | <i>500</i> | <i>IC</i> | <i>0</i> |
|----------|----------|------------|------------|-----------|----------|

FIG. 7A

*ROUTER
TO
SERVER*

| | | | | | |
|----------|----------|------------|------------|-----------|----------|
| <i>X</i> | <i>Y</i> | <i>500</i> | <i>500</i> | <i>IC</i> | <i>0</i> |
|----------|----------|------------|------------|-----------|----------|

FIG. 7B

*SERVER
TO
ROUTER*

| | | | | | |
|----------|----------|------------|------------|-----------|-----------|
| <i>Y</i> | <i>X</i> | <i>500</i> | <i>500</i> | <i>IC</i> | <i>RC</i> |
|----------|----------|------------|------------|-----------|-----------|

FIG. 7C

*ROUTER
TO
CLIENT*

| | | | | | |
|----------|----------|------------|------------|-----------|-----------|
| <i>Y</i> | <i>A</i> | <i>500</i> | <i>500</i> | <i>IC</i> | <i>RC</i> |
|----------|----------|------------|------------|-----------|-----------|

FIG. 7D

110

110

110

110

| | SRC | DEST | |
|--------------|-------|-------|-----|
| 406 ORIGINAL | A: IC | Y: | 402 |
| 408 NEW | X: IC | Y: | |
| 410 ORIGINAL | Y: | X: IC | 404 |
| 412 NEW | Y: | A: IC | |

400

FIG. 8A

| | SRC | DEST | |
|----------|-------|-------|-----|
| ORIGINAL | A: IC | Y: RC | 400 |
| NEW | X: IC | Y: RC | |
| ORIGINAL | Y: RC | X: IC | |
| NEW | Y: RC | A: IC | |

FIG. 8B

| SRC ADDR | DEST ADDR | SPI |
|-------------|--------------|-----|
|-------------|--------------|-----|

CLIENT
TO
ROUTER

| | | |
|---|---|----|
| A | Y | Sy |
|---|---|----|

FIG. 9A

ROUTER
TO
SERVER

| | | |
|---|---|----|
| X | Y | Sy |
|---|---|----|

FIG. 9B

SERVER
TO
ROUTER

| | | |
|---|---|----|
| Y | X | Sa |
|---|---|----|

FIG. 9C

ROUTER
TO
CLIENT

| | | |
|---|---|----|
| Y | A | Sa |
|---|---|----|

FIG. 9D

100

100

100

100

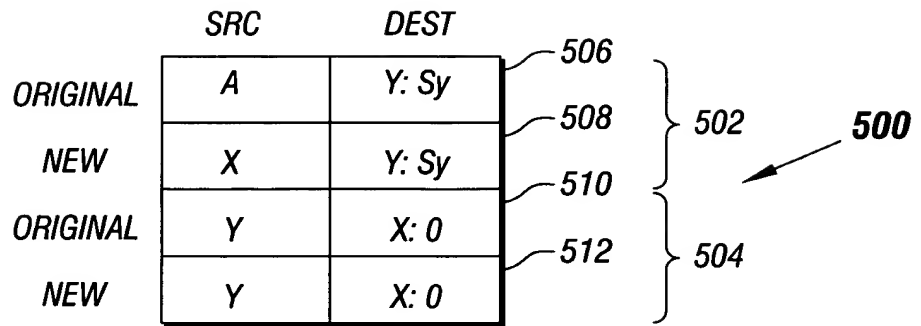


FIG. 10A

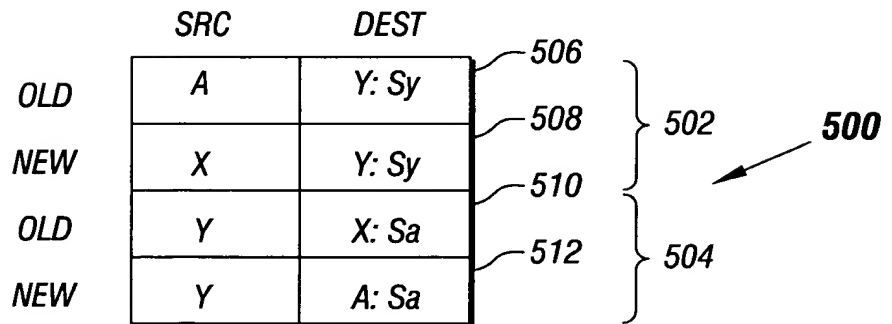


FIG. 10B